

We Claim:

1. An antenna for modifying weather conditions, the antenna comprising:
5 a plurality of peripheral nodes;
a central node located within the plurality of peripheral nodes;
a plurality of peripheral spokes for connecting each of the peripheral nodes to adjacent peripheral nodes; and
a plurality of radial spokes for connecting the peripheral nodes to the central
10 node.
2. The antenna of claim 1 wherein said antenna is capable of electrifying and ionizing the atmosphere for modifying weather conditions, upon application of a selected power signal having a voltage value of between about zero volts and about
15 positive 500 kilovolts and between about zero volts and about negative 500 kilovolts and having a current value of between about zero and about five-hundred milliamps.
3. The antenna of claim 2 wherein a power supply associated with said antenna provides the plurality of peripheral and radial spokes with the selected power signal to
20 induce said antenna to ionize the atmosphere and modify weather conditions,
4. The antenna of claim 1 wherein the central node comprises:
a central base portion; and
a central vertical member coupled to the base portion.
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5. The antenna of claim 4 wherein the central vertical member includes a mechanism for bringing the radial spokes connected to the central node from a first position to a second position.
- 30 6. The antenna of clam 4 wherein the height of the central vertical member decreases as the number of peripheral spokes increases.

7. The antenna of claim 1 wherein each of the plurality of peripheral nodes comprises:

- a peripheral base portion; and
- 5 a peripheral vertical member coupled to the peripheral base portion.

8. The antenna of claim 7 wherein each of the peripheral vertical members includes a mechanism for bringing the peripheral spokes and the radial spokes connected to the peripheral node from a first position to a second position.

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9. The antenna of claim 1 wherein the radial spokes and the peripheral spokes are formed from a medium for conducting electricity.

10. The antenna of claim 1 further comprises

- 15 an isolator coupled to the central node and extending radially to electrically isolate the central node from each of the plurality of radial spokes; and
- an isolator coupled to each of the peripheral nodes and extending radially to electrically isolate each of the peripheral nodes from each of the plurality of radial spokes and each of the plurality of peripheral spokes.

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11. A system for electrifying and ionizing molecules in the atmosphere, the system comprising:

- an antenna having a polygon base portion;
- a power source for providing electric power to the antenna; and
- 25 a control unit for controlling the power source based on weather data and images, wherein the antenna radiates an electric field to ionize the atmosphere.

12. The system of claim 11 wherein the antenna includes:
 - a plurality of peripheral nodes;
 - a central node spaced apart from each of the plurality of peripheral nodes5 to form an inverted cone-like shape;
 - a plurality of peripheral spokes for connecting each of the peripheral
 - nodes to adjacent peripheral nodes; and
 - a plurality of radial spokes for connecting the peripheral nodes to thecentral node.
- 10 13. The system of claim 11 wherein the control unit controls the power supplied to the antenna from the power source in order to modify weather conditions.
14. The system of claim 13 wherein the control unit controls the power supplied to
- 15 the antenna from the power source in order to modify weather conditions comprising a least one of inducing or inhibiting precipitation, increasing or decreasing relative humidity in order to help in controlling forest fires or to disperse fog, inducing changes to aid in controlling violent storms such as tornadoes and hurricanes, increasing or decreasing temperature and changing wind speed and direction
- 20 15. A method for ionizing the atmosphere, the method comprising the steps of:
 - providing an antenna that includes, a plurality of peripheral nodes, and a central node; and
 - applying electric power to the peripheral spokes and radial spokes to ionize the25 atmosphere.
16. The method of claim 15 further comprising the step of controlling the electric power applied to the plurality of radial and peripheral spokes based on weather data and images to ionize the atmosphere.
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17. The method of claim 15 wherein the step of applying comprises the step of supplying the peripheral spokes and the radial spokes with a voltage that induces a discharge on the peripheral and radial spokes.
- 5 18. The method of claim 15 wherein the radial spokes are connected to the central node at one end and to the peripheral nodes at the other end through electrical isolators.
- 10 19. The method of claim 16 wherein the step of controlling comprises the step of supplying one of a positive and a negative voltage to ionize the atmosphere in order to modify the weather conditions.